

DR. Siddiquee, Mohammed Saiful Alam

Professor, Civil Engineering Department, King Abdulaziz University

Education

<i>Degree</i>	<i>Field</i>	<i>Institution</i>	<i>Year</i>
PhD	Civil Engineering	University of Tokyo, Tokyo, Japan	1994
MS	Structural Engineering	University of Tokyo, Tokyo, Japan	1991
BS	Civil Engineering	Bangladesh University of Engg. & Tech.	1986

Academic Experience

<i>From</i>	<i>To</i>	<i>Institution</i>	<i>Rank</i>	<i>Title (Chair, Coordinator, etc.)</i>	<i>Full or Part Time</i>
2013	Present	King Abdulaziz Univ.	Professor		Full Time
2003	2013	Bangladesh Univ. of Engg. & Tech.	Professor		Full Time
1997	2003	Bangladesh Univ. of Engg. & Tech.	Assoc. Prof.		Full Time
1994	1997	Bangladesh Univ. of Engg. & Tech.	Assist. Prof.		Full Time

Non Academic Industrial Experience (*including Consultations*)

<i>From</i>	<i>To</i>	<i>Company/Entity</i>	<i>Title</i>	<i>Position Description (Brief)</i>	<i>Full or Part Time</i>
1992	1994	The Akashi kaikyo bridge, Japan	Consultant	FEM Analysis	Part Time
1994	1995	Airport overlay project, Dhaka	Consultant	FEM Analysis	Part Time
1996	1997	Dhaka Integrated Flood Protection Embankment, Dhaka	Consultant	Slope stability analysis	Part Time
1998	1999	Hard rock characterisation, Dhaka	Consultant	Property assessment	Part Time
2006	2006	Geotechnical Investigation, Dhaka	Consultant	Field and lab. tests	Part Time
2009	2009	Expansion of a Mosque, Dhaka	Consultant	Structural design	Part Time
2009	2009	Technical Viability Study of Submersible Block Pavement Road	Consultant	FEM Analysis	Part Time
2010	2010	Land Development for an Industrial Park	Consultant	Soil Improvement	Part Time
2011	2011	Railway track embankment design	Consultant	Stability Analysis	Part Time
2012	2012	Analysis of an embankment failure	Consultant	Forensic Analysis	Part Time
2012	2013	Extension and renovation of Chittagong Port	Consultant	Deputy Team Leader	Part Time
2012	2013	CETP design project	Consultant	Deputy Team Leader	Part Time

Funded Research Projects and Patents from the Past Five Years

Title: Development of an elastic visco-plastic model for Tokyo City Soft-rock and its application to tunnel construction, Year: 2012-present, Fund: 5,000,000/- Yen.

Certifications and Professional Registrations

Registered Professional Engineer in Bangladesh and guest researcher in Institute of Industrial Science, Tokyo University, Japan.

Current Membership in Professional Societies and Organizations

<i>Society/organization</i>	<i>Rank</i>	<i>Member</i>
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		<i>Since</i>
1. Member of Institute of Engineers, Dhaka, Bangladesh	Fellow	1986
2. Member of Japanese Geotechnical Society (JGS), Japan	Member	1989
3. Member of Japanese Society of Civil Engineers (JSCE), Japan	Member	1989
4. Member of Bangladesh Geotechnical Society of Engineers (BSGE), Dhaka, Bangladesh	Member	1989
5. Member of International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE)	Member	1989

Honors and Awards

Obtained short term Invitation Fellowship of JSPS for the period from October 2007 to November 2007, tenable at the Tokyo University of Science, Chiba, Japan.

Obtained long term JSPS Fellowship for the period from April 1999 to April 2001, tenable at the University of Tokyo, Tokyo, Japan.

Obtained short term STA Fellowship for the period from November 1996 to January 1997, tenable at the Central Research Institute of Electric and Power Industry, Abiko, Japan.

Obtained Monbusho Scholarship for the period from October 1989 to October 1994, tenable at the University of Tokyo, Tokyo, Japan.

University Merit Scholarship and Board Scholarship (BUET)- 4 years: 1981-85.

Obtained prestigious 'Honors' in B.Sc. Engg (BUET)- graduation: 1986.

Institutional and Professional Services (*administration, committees, units, etc.*) N/A

Principal Publications/Presentations from the Past Five Years

1. M. K. Islam, J. P. Carter, M. S. A. Siddiquee, M. S. Islam (2013), "A Method for Derivation of compression Equation and Value of Degradation Exponent for Structured Soils", Published Online in Geotechnical and Geological Engineering, August 2013, (ISI-indexed).
2. M. S. A. Siddiquee, M. Shariful Islam and F. Tatsuoka (2013), "Development of a Nonlinear Model for Soft Rock and its Applications", Published Online in Geotechnical and Geological Engineering, Vol. 31, Issue 2 (ISI-indexed).
3. Fu-Lin Li, Fang-Le Peng, Yong Tan, W. Kongkitkul, M.S.A. Siddiquee (2011), "FE simulation of viscous behavior of geogrid-reinforced sand under laboratory-scale plane-strain-compression testing", Geotextiles and Geomembranes, online journal (2011.8), pp.72-80, Vol. 31, No. 12, (ISI-indexed).
4. Peng Fangle, Cao Yanbo, Nozomu Kotake, Siddiquee M S A. (2010), "Numerical analysis of deformation and failure of reinforced sand with Goodman interface elements", Journal of Rock Mechanics And Engineering, 2010,29 (Z2)..
5. Fang-Le Peng, M. S. A. Siddiquee, Fumio Tatsuoka, S. J. M. Yasin and Tadatsugu Tanaka (2009), "Strain Energy-Based Elasto-Viscoplastic Constitutive Modelling of Sand For Numerical Simulation", Soils and Foundations, Vol. 49, No. 4, p.611-629 (ISI-indexed).
6. Md. Saiful Alam Siddiquee (2009), "A Fast Implicit Integration Scheme to Solve Highly Nonlinear System", Solid Mechanics and Its Applications, Book Series, 2007, Vol 146, pages 719-726

Recent Professional Development Activities (*Workshops, training, etc.*)

1. AAU/ASU Newcomers Workshop
2. AAU/ASU Workshops